

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of	)	Group Art Unit: TBA
	)	
Vazquez et al.	)	Examiner: TBA
	)	
Application No. TBA	)	Atty: Docket No. 101765.00026 (2704/8)
	)	
Filed: February 24, 2004		

For: SUCCINOYLAMINO HYDROXYETHYLAMINO SULFONAMIDES  
USEFUL AS RETROVIRAL PROTEASE INHIBITORS

**INFORMATION DISCLOSURE STATEMENT**


Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. §§ 1.197 and 1.98, enclosed is Form PTO-1449 (pages 1 through 5) listing documents for consideration by the Examiner during the prosecution of the subject application. The art cited on pages 1 through 3 of the form was previously disclosed and submitted in patent Application Serial No. 09/419,816 filed October 18, 1999 and Application Serial No. 08/541,747 filed October 10, 1995. Copies of the documents on page 4 of the form were submitted in grandparent Application Serial No. 09/884,462 on June 20, 2001. Since applicants relied on the benefit of those applications under 35 U.S.C. § 120, a copy of that art is not being resubmitted herewith (37 C.F.R. § 1.98(d)). The document cited on page 5 is enclosed. It is believed no fee is required to make this a complete filing, however, if a fee is required, please charge our deposit account no. 19-0733.

Consideration of this information is respectfully requested.

Respectfully submitted,

By:   
Joseph M. Skerpon  
Registration No. 29,864

Date: February 24, 2004

Banner & Witcoff, Ltd.  
1001 G Street, N.W. 11<sup>th</sup> Floor  
Washington, D.C. 20001-4597  
202-508-9100  
JMS/bao

LIST OF DOCUMENTS CITED BY APPLICANT  
(Use several sheets if necessary)

APPLICANT  
M. Vazquez et al

Filing Date 2/24/2004  
Group TBA

Page 1 of 5

U. S. PATENT DOCUMENTS

* Exmr. In	Document Number	Issue Date	Name	U.S. Class	Sub Class	Filing Date
AH	4,668,769	26 May 87	Hoover	530	1331	12 Aug 1985
AI	4,668,770	26 May 87	Boger et al	530	1331	18 May 1984
AJ	4,757,050	12 Jul 88	Natarajan et al	514	118	28 Aug 1987
AK	4,880,938	14 Nov 89	Freidinger	548	492	16 Jun 1986
AL	4,963,530	16 Oct 90	Hemmi et al	514	119	21 Mar 1988
AM	4,977,277	11 Dec 90	Rosenberg et al	549	215	15 Jun 1989

Foreign Patent Documents

	Document Number	Publication Date	Country	Int'l. Class	Sub Class	Trans Y	N
AT	W084/03044	16 Aug 84	PCT	A61K	37/64		
AV	104,041		Europe	C07C	103/52		
AW	114,993		Europe	C07C	103/52		
AX	172,347	26 Feb 86	Europe	C07K	15/00		

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

BM Rich et al, Peptide Inhibitors of Proteases, 511-520

BN Rosenberg et al, J. Med. Chem., 30, 1224-1228 (1987)

EXAMINER

DATE CONSIDERED

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

LIST OF DOCUMENTS CITED BY APPLICANT  
(Use several sheets if necessary)

APPLICANT

M. Vazquez et al

Filing Date

2/24/2004

Group

TBA

Page 2 of 5

## U. S. PATENT DOCUMENTS

Exmr. In	Document Number	Issue Date	Name	U.S. Class	Sub Class	Filing Date
AA	4,599,198	18 Jul 86	Hoover	1260	1998.2	26 Sep 1985
AB	SIR H725	12 Jan 90	Gordon	1548	1533	26 Feb 1987
AC	4,514,391	130 Apr 85	Gordon et al	1514	12	21 Jul 1983
AD	4,450,164	122 May 84	Bristol et al	1424	1256	20 Dec 1982
AE	4,477,441	16 Oct 84	Boger et al	1424	1177	14 Sep 1983
AF	4,548,926	122 Oct 85	Matsueda et al	1514	119	17 Jun 1984
AG	4,616,088	17 Oct 86	Ryono et al	1546	1336	14 Dec 1984

## Foreign Patent Documents

	Document Number	Publication Date	Country	Int'l. Class	Sub Class	Trans Y	N
AN	0 346 847	20 Dec 89	EP	1C07D	1207/10		
AO	0 342,541	23 Nov 89	EP	1C07K	15/02		
AP	2,184,730	1 Jul 87	U.K.	1C07K	15/00		
AQ	2,209,752	24 May 89	G.B.	1C07C	1103/30		
AR	0 264 795	127 Apr 88	EP	1C07K	15/00		
AS	2,200,115	127 Jul 88	GB.	1C07C	1103/00		

## Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

BG	Roberts et al, "Rational Design of Peptide-based Proteinase Inhibitors," <i>Science</i> , 248, 358 (1990).
BH	Erickson et al, "Design Activity, and 2.8Å Crystal Structure of a C <sub>2</sub> Symmetric Inhibitor Complexed to HIV-1 Protease," <i>Science</i> , 249, 527 (1990).
BI	Pearl et al, "Sequence specificity of retroviral proteases" <i>Nature</i> , 328, (1987)
BJ	Martin, <i>Drugs of the Future</i> , 16(3), 210-212 (1991)
BK	Meek et al, <i>Letter To Nature</i> , 343, 90-92 (1990)
BL	McQuade et al, <i>Science</i> , 247, 454-456

EXAMINER

DATE CONSIDERED

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

LIST OF DOCUMENTS CITED BY APPLICANT  
(Use several sheets if necessary)

APPLICANT  
M. Vazquez et al

Page 3 of 5

Filing Date 2/24/04 | Group TBA

Foreign Patent Documents

	Document Number	Publication Date	Country	Int'l. Class	Sub Class	Trans Y	N
AY	223,437	27 May 87	Europe	C07K	15/00		
AZ	337,714	18 Oct 89	Europe	C07K	15/02		
BA	356,223	28 Feb 90	Europe	C07K	137/64		
BB	389,898 A2	3 Oct 90	Europe	C07K	15/02		
BD	393,445	24 Oct 90	Europe	A61K	137/64		
BE	393,457	24 Oct 90	Europe	C07K	1005/06		
BF	402,646	19 Dec 90	Europe	C07D	1213/40		
BO	468,641	29 Jan 92	Europe	C07D	15/02		
BP	92/08699	29 May 92	PCT/WO	C07D	1215/48		

Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

\* Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**Complete if Known**

*(use as many sheets as necessary)*

Sheet	4	of	5
-------	---	----	---

Application Number	TBA
Filing Date	2/24/2004
First Named Inventor	Vazquez et al.
Group Art Unit	TBA
Examiner Name	TBA
Attorney Docket Number	101 65.00026(2704/8)

[illegible][illegible]

Date Considered

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	TBA
				Filing Date	February 24, 2004
				First Named Inventor	Vazquez, et al.
				Group Art Unit	TBA
				Examiner Name	TBA
				Attorney Docket Number	101765.00026 (2704/8)
Sheet	5	of	5		

[illegible][illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**